

**DOPPLER CORRECTED COMMUNICATIONS RECEIVER AND  
METHOD OF REMOVING DOPPLER FREQUENCY SHIFT**

**Abstract of the Disclosure**

A method and communications receiver is disclosed that removes Doppler frequency shift in a spread spectrum communications signal. A pilot channel rake section has I and Q Doppler estimation channels for estimating the Doppler change in frequency based on a common pilot channel. A data channel rake section has I and Q data channels for receiving the Doppler change in frequency from the pilot channel rake section and canceling any Doppler error.

TOP SECRET - CONFIDENTIAL